

|          |                          |
|----------|--------------------------|
| Basis    | <b>AH 140 / LI 130-1</b> |
| Resin    | <b>AH 140</b>            |
| Hardener | <b>LI 130-1</b>          |
| Colour   | yellow transparent       |

### Applications

- Vacuuminfusion of carbon- and glass fibre parts
- Hand lay-up of carbon- and glass fibre parts

### Properties

- cures tack free
- high heat resistance
- long processing time

### Processing data

| Product               |                                    | Mixture<br>AH 140 / LI 130-1       | Resin<br>AH 140 | Hardener<br>LI 130-1 |
|-----------------------|------------------------------------|------------------------------------|-----------------|----------------------|
| Colour                |                                    | yellow transparent                 | transparent     | yellow transparent   |
| <b>Mixing ratio</b>   | <b>p. b. w.</b>                    |                                    | <b>100</b>      | <b>35</b>            |
| Viscosity at 25°C     | mPas                               | 550 ± 75                           | 1000 ± 200      | 65 ± 10              |
| Density at 20°C       | g / cm <sup>3</sup>                | 1,12 ± 0,02                        | 1,17 ± 0,02     | 0,97 ± 0,03          |
| Pot life 200 g / 20°C | min.                               | 120 - 140                          | -               | -                    |
| Curing time at RT     | hrs.                               | 40 - 48                            | -               | -                    |
| Post curing           | Time in h/<br>Temperature in<br>°C | 4 h 60°C + 6 h 80°C + 4 h<br>120°C | -               | -                    |

### Physical data

| Properties                      | Inspect. requirem. | Unit              | Value      |
|---------------------------------|--------------------|-------------------|------------|
| Flexural strength               | EN ISO 178         | MPa               | 117 ± 10   |
| Flexural strength at breakage   | EN ISO 178         | %                 | 7,5 ± 0,3  |
| Flexural modulus                | EN ISO 178         | MPa               | 2860 ± 250 |
| Impact resistance (Charpy)      | EN ISO 179         | kJ/m <sup>2</sup> | 30 ± 5     |
| Compressive strength            | EN ISO 604         | MPa               | 95 ± 5     |
| Heat resistance (HDT)           | DIN EN ISO 75 B    | °C                | 111 ± 3    |
| Glass transition temperature TG | methode DSC        | °C                | ca. 103    |
| Shore hardness                  | DIN 53505          | Shore D           | 85 ± 2     |

### Sales units (packages)

|       |       |          |   |
|-------|-------|----------|---|
| Units | Resin | AH 140   | 5,000 kg / 10,000 kg / 25,000 kg / 50,000 kg / 220,000 kg |
|       |       | LI 130-1 | 1,750 kg / 3,500 kg / 25,000 kg / 50,000 kg               |

## Processing instructions

The temperature of the material during the handling should be between 18 and 25°C. Resin and hardener should be mixed intensively at room temperature, avoiding the formation of air bubbles.

The ideal post-curing heating rate is of about 10°C/hour. We recommend the use of fixtures for complex geometries. The ideal cooling rate should be of 20°C/hour.

With a post-curing of 4 h at 60°C + 6 h at 80°C you reach a heat resistance HDT after DIN EN ISO 75 B of 95°C.

At room temperature (20°C), laminates can be demoulded and cut after about 2 days; by post-curing at 40-50°C after about 8 hours.

## In General

Opened containers should be rapidly consumed, the hardener LI 130-1 tends to change in colour becoming brownish.

## Storing

At appropriate storage 18-25°C.

Occuring crystallization due to disadvantageous storage conditions can be made return by warming up the material at approx. 60° C.

Opened containers should be closed immediately after use and be protected against moisture. This material should be used up as soon as possible.

Shelf life is indicated on the labels

## Safety measure

Please follow the precaution instructions of the Government Safety Organisation of the chemical industry when working with this material. Please follow safety advices !

## Waste Disposal

According to arrangement with local authorities cured material can be disposed as domestic or commercial waste.

Non-cured products are waste which is subject to inspection and has to be disposed accordingly.

In case of further questions please do not hesitate to contact our Department for Product Safety.

The instructions and recommendations are given in good faith and are based on long experience and careful tests. Since the conditions of use are beyond our control, and due to versatility of applications and working methods, we can't give any guarantee. All information are non-binding and are no guarantee for special characteristics or properties of the product. Despite information given from **ebalta** the customer has to make his own tests regarding applications and processing. If any special warranty is requested, written agreement on this subject is essential.

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